

330 P. 31 MAX 100



Product Analysis

Anhydrous Ammonia - Metallurgical Grade

CF Industries Holdings, Inc.
4 Parkway North, Suite 400
Deerfield, IL
60015-2590
847-405-2400

Fax: 509-488-5608

Shipping Coordinator:
Phone:

Bonnie Dobbin
519-867-2739 ext. 1250

Certificate of Analysis

Shipment Information	
Load Date:	NOVEMBER 4/14
Order Number:	30577059
Conveyance ID:	UTLX 954587
Customer:	MULTISTAR INDUSTRIES INC.
Destination:	OTHELLO, WA
Customer PO:	141103JG-000



Certified to
NSF/ANZA 60

MUL - 5 mg/L

Laboratory results along with specification range for each constituent are listed below.

Chemical Properties	Minimum	Maximum	Analytical Results
Ammonia, % by wt.	100.0%		99.9998
Water, ppm		33	1
Oil, ppm		2	0.1
Appearance			Colourless Gas
Physical State			Liquified Gas

N/D = Non-Detectable

The product listed herein has been tested and meets the identified specifications stated above at the time of testing, or will typically have similar physical characteristics as those listed. Product characteristics may vary slightly depending on the source. Although the information is provided in good faith, CF makes no guarantee, warranty or representation as to the suitability of the product for any purpose, and the user accepts full responsibility to determine the suitability of the product for its own use. CF's liability for damages or losses resulting from failure of the product to meet the specifications listed above shall be limited to replacement of the product or refund of the purchase price, at CF's option. In no event shall CF be liable for any special or consequential damages. Product information is subject to change.

Name/Title of Person Approving Analysis and Shipment:

Tom Croskery

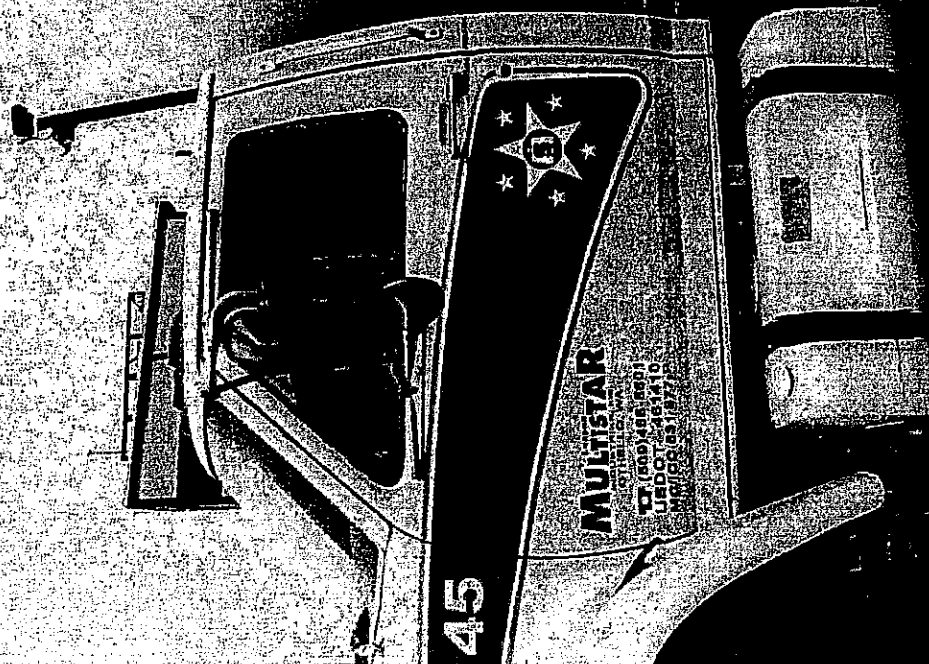
Rev Date: 1/23/2013: DAS

this subchapter as specified for MC 331 cargo tank motor vehicles.

- (6) *Except as provided in this paragraph (k), it must be operated exclusively in intrastate commerce, including its operation by a motor carrier otherwise engaged in interstate commerce, in a state where its operation was permitted by law (not including the incorporation of this subchapter) prior to January 1, 1981. A cargo tank motor vehicle operating under authority of this section may cross state lines to travel to and from a qualified assembly, repair, maintenance, or requalification facility. The cargo tank need not be cleaned and purged, but it may not contain liquefied petroleum gas in excess of five percent of the water capacity of the cargo tank. If the vehicle engine is supplied fuel from the cargo tank, enough fuel in excess of five percent of the cargo tank's water capacity may be carried for the trip to or from the facility.*
- (7) *It must have been used to transport liquefied petroleum gas prior to January 1, 1981.*
- (8) *It must be operated in conformance with all other requirements of this subchapter.*
- (I) **Anhydrous ammonia must not be offered** for transportation or transported in specification MC 330 and MC 331 cargo tanks constructed of quenched and tempered ("QT") steel except as provided in this paragraph.
 - (1) *The ammonia must have a minimum water content of 0.2 percent by weight. Any addition of water must be made using steam condensate, deionized, or distilled water.*
 - (2) *Except as otherwise provided in this paragraph, each person offering for transportation or transporting anhydrous ammonia shall perform a periodic analysis for prescribed water content in the ammonia. The analysis must be performed:*
 - (i) *From a sample of the ammonia in storage taken at least once every 7 days, or each time ammonia is added to the storage tanks, whichever is less frequent; or*
 - (ii) *At the time the cargo tanks are loaded, then a sample of the ammonia taken from at least one loaded cargo tank out of each 10 loads, or from one cargo tank every 24 hours, whichever is less frequent; or*
 - (iii) *At the same frequency as described in paragraph (I)(2)(ii) of this section, from a sample taken from the loading line to the cargo tank.*
 - (3) *If water is added at the time of loading:*
 - (i) *The sample for analysis must be taken from a point in the loading line between the water injection equipment and the cargo tank; and*
 - (ii) *Positive provisions must be made to assure water injection equipment is operating.*
 - (4) *If water injection equipment becomes inoperative, suitable corrective maintenance must be performed after which a sample from the first loaded cargo tank must be analyzed for prescribed water content.*
 - (5) *The analysis method for water content must be as prescribed in CGA G-2.2, "Tentative Standard Method for Determining Minimum of 0.2 percent water in Anhydrous Ammonia," (IBR, see §171.7 of this subchapter).*
 - (6) *Records indicating the results of the analysis taken, as required by this paragraph, must be retained for 2 years and must be open to inspection by a representative of the Department.*
 - (7) *Each person receiving anhydrous ammonia containing 0.2 per cent water by weight may offer for transportation or transport that ammonia without performing the prescribed analysis for water content provided:*
 - (i) *The ammonia received was certified as containing 0.2 percent water as prescribed in §§172.203(h)(I)(i) and 177.817(a) of this subchapter; and*

No. 8

Truck #45



SYSTEM TEST
INDICATOR

BASE ENGINEERING INC.
FUEL CONTROL TECHNOLOGIES

SHUT DOWN
INDICATOR

TECHNICAL SUPPORT

1.800.924.1010 OR 508.887.2077

CONTRACT
PROUS

EMERGENCY DISCHARGE
CONTROL 10600-01
FRONT OF BOTTLE
(Diagonally Opposed)

LIBERTY

TRANSPORTS

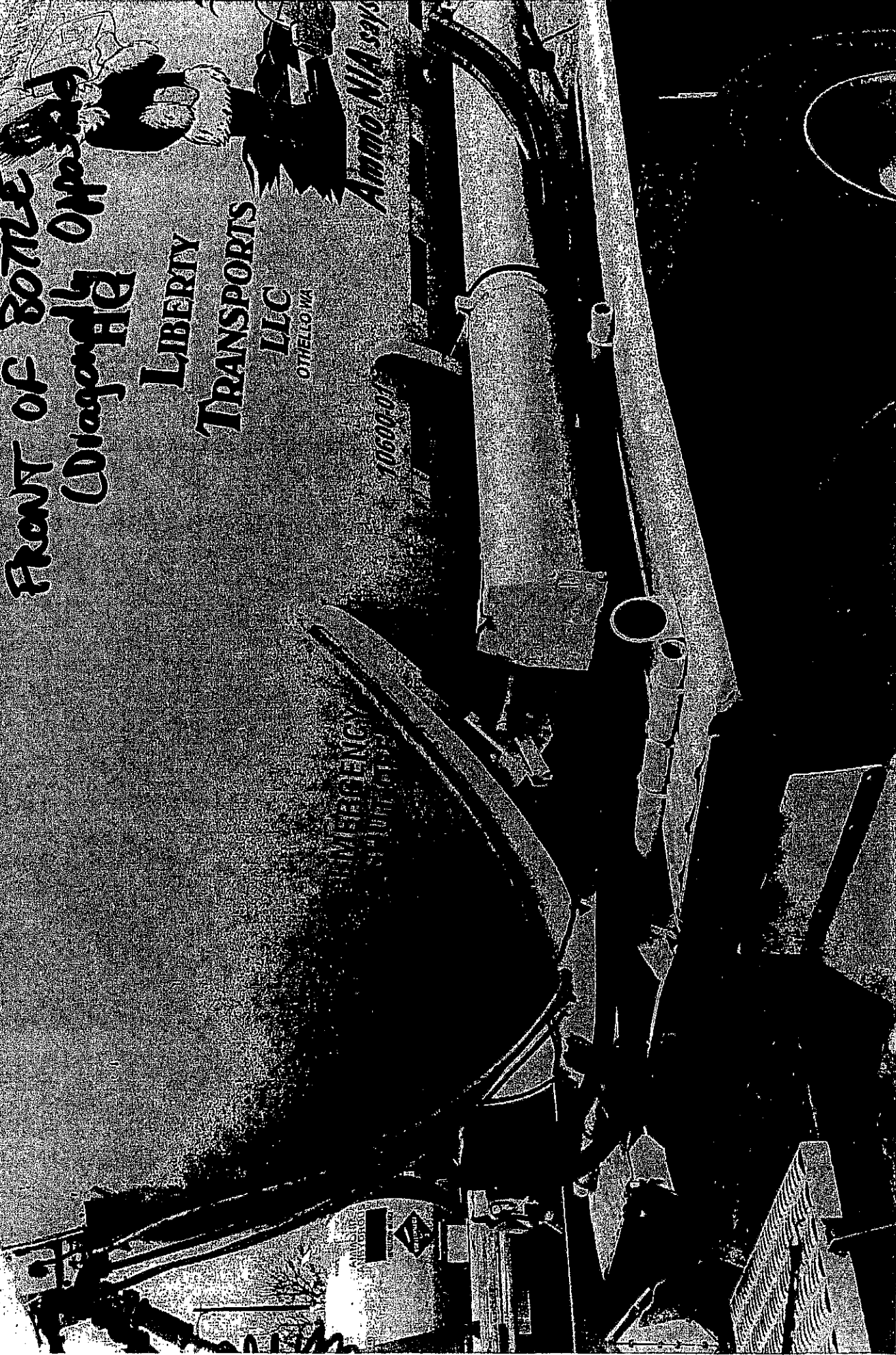
LLC

OTTAWA

Ammo NIA says

10600-01

EMERGENCY
DISCHARGE





A high-contrast, black and white photograph of a mechanical assembly, possibly a vehicle chassis or engine component. The image is heavily stylized, with large black areas obscuring details. A vertical strip on the left contains the text "0-0000" and "X".

10

LIQUID

VAPOR

SPRAY FILL

REFRIGERATION GRADE

NOT

AMMONIA NORTHWEST®

06-44VKE

CASO/NEON/MI





I CERTIFY THAT THE PORTABLE TANK FULLY CONFORMS TO ITS DOT OR ICC SPECIFICATION

OWNER *William*

REGISTERED INSPECTOR *P. D. [Signature]*

Affidavit:

This is to certify that the following information regarding the anhydrous ammonia release that occurred at Multistar Industries, Inc. on August 24, 2014, is true and correct:

- 1) The release occurred due to an equipment failure on a portable sliding vane compressed gas pump. Specifically, a safety pressure relief valve (RegO) failed, that provided relief for a Corken 1021 liquid pump.
- 2) This pump is a portable unit.
- 3) This particular piece of equipment is owned by Multistar Industries, Inc.
- 4) This piece of equipment is not leased to Liberty Transports, LLC.
- 5) This portable pumping unit is not permanently attached to any vehicle or any cargo tank motor vehicle.
- 6) This unit is not permanently attached to any vehicle or CTMV owned or leased by Liberty Transports, LLC.
- 7) The shipment of anhydrous ammonia had not been offered for transportation by the shipper, Multistar Industries, Inc. to Liberty Transports, LLC, at the time of the release.

X

Pete Vanourek

AMMUNITION NORTH

Ammo NIA says:

NQOT

09 12 VKIP

09 13 VK

09 14 VK

1

1

1

Test Sticker

6500-03

EXTRA: TECHNICAL REFRIGERATION GRADE

AMMONIUM CHLORIDE

AMMONIUM NITRATE

1000000000





7-10 VKP	
7-12 VK	
7-13 VK	
7-14 VK	
7-1	
7-1	

NOT
6500-03

WOMEN DRY REAL DRY

2040-04

THE
H
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R
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T
O

**ONIA,
PROUS**

AMONIA FOR FAVES

THE UNIVERSITY OF CHICAGO



ALL REFRIGERATION GRADE



MONIA

RTHWEST

0814VKP

1

1

1

1

1

NOT



Test Sticker

1000-01

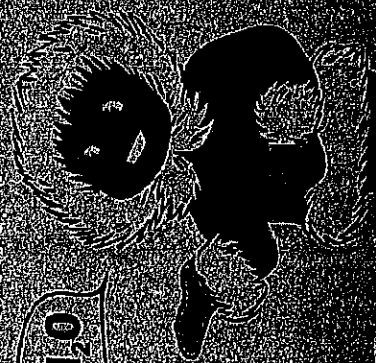


R-717: A1; TECHNICAL, REFRIGERATION GRADE
MADE IN U.S.A.

AMMONIA
ANHYDROUS



<10 ppm H₂O



HG
LIBERTY
TRANSPORTS

INC.

LIBRARY OF THE
FEDERAL BUREAU OF INVESTIGATION
U. S. DEPARTMENT OF JUSTICE
WASHINGTON, D. C. 20535

I CERTIFY THAT THIS PORTABLE TANK FULLY CONFORMS TO ITS DOT OR ICC SPECIFICATION

THE

~~Julianus~~

REGISTERED INSPECTOR

INSPECTED INSPECTOR *[Signature]*

Maintenance

Potential problems may be eliminated with preventive internal valve maintenance. Perform the following steps once a month:

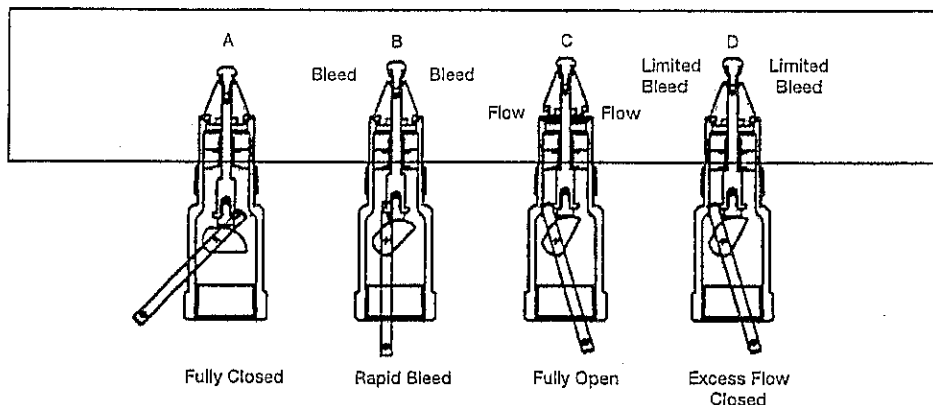
1. Check to see that the operating lever moves freely and smoothly. There should be no leakage around the lower stem or seal housing. Leakage requires replacement of the seal housing packing. A sticking lever indicates trapped foreign material or mechanism wear.

2. Check both seat discs for tight closure. Close valve and exhaust downstream pressure. Be sure piping is warmed to an ambient temperature. Close the first downstream valve and note pressure buildup between the closed valves with a pressure gauge. If leakage occurs, replace both seat discs.

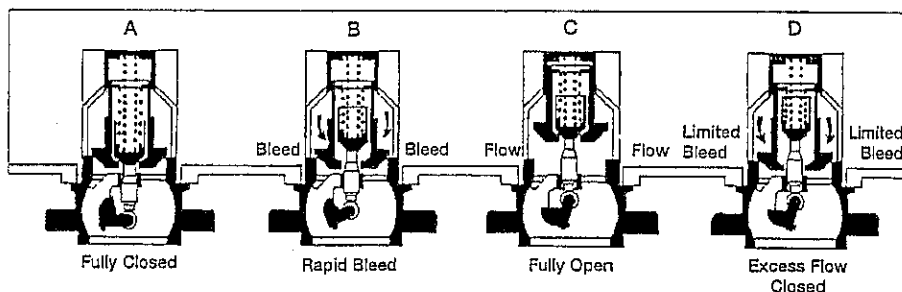
3. Inspect, clean and oil all operating controls. Check controls to see that they open fully, but do not overtravel the valve operating lever. See that they work freely to close the valve. Worn parts should be replaced.

4. Remove valve if the tank is to be steam cleaned. Heat may damage the valve's seals.

5. Valve is not designed for water service. After tank is hydrostatically tested, immediately remove all water and allow tank to thoroughly dry out before installing valve.



A3209D Series, 1 1/4" Straight
A3209DT Series, 1 1/4" Straight
A3211D Series 1 1/2" Straight
A3212R Series, 2" Straight
A3212RT Series 2" Tee Body
A3213R Series, 3" Straight
A3213T Series 3" Tee Body



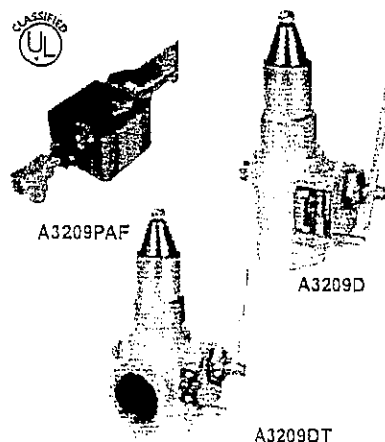
A3219FA Series, 4" Flanged

1 1/4" Threaded Internal Valve for Small Capacity Pumping Systems and Bobtail Vapor Equalization A3209D & A3209DT Series

Designed primarily for use with LP-Gas and anhydrous ammonia as a main valve on small capacity pumping systems, NH3 nurse tanks and in-line installations. It may also be installed in the vapor equalizing opening on bobtail delivery trucks. Installation is quick and easy, and it fits in both full and half couplings, as well as, in-line applications. The valve may be actuated manually by hand or cable.

Ordering Information

Part Number	Inlet Connection IN NPT	Outlet Connection OUT NPT	Closing Flow		LP-Gas Vapor Capacity** (SCFH/Propane)		Accessories	
			LP-Gas	NH3	25 PSIG	100 PSIG	Thermal Latch	Pneumatic Actuators
A3209D050	1 1/4"	1 1/4"	50	45	13,300	22,900	A3209TL	A3209PA A3209PAF
A3209D080	1 1/4"	1 1/4"	80	72	15,700	26,700		
A3209DT050	1 1/4"	1 1/4"	50	45	13,300	22,900		
A3209DT080	1 1/4"	1 1/4"	80	72	15,700	26,700		



I CERTIFY THAT THIS PORTABLE TANK FULLY CONFORMS TO ITS DOT OR ICC SPECIFICATION

OWNER

REGISTERED INSPECTOR

LIBERCOCK BY

MFG 68

LIBERCOCK

MAX WORK PR

AT MAX TEMP

MIN TEMP

NO

CARD NO

1866

6.8

452

25

MAT L

S A

26.5 PS

150

20

760

1866

6.8

452

25

MAT L

S A